

=> FILE REG

FILE 'REGISTRY' ENTERED AT 19:50:46 ON 28 AUG 2008
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=> D HIS

FILE 'LREGISTRY' ENTERED AT 19:43:10 ON 28 AUG 2008

L1 1 S (PT (L) (RU OR RH OR MO OR W OR V OR HF OR ZR OR NB OR
L2 0 S L1 (L) 3/ELC.SUB

FILE 'REGISTRY' ENTERED AT 19:43:28 ON 28 AUG 2008

L3 627 S L1
L4 90 S L3 (L) 3/ELC.SUB

FILE 'HCA' ENTERED AT 19:45:00 ON 28 AUG 2008

L5 48 S L4
L6 QUE CAT# OR CATALY?
L7 863361 S MEMBRAN?
L8 79374 S FUEL?(2A) (CELL OR CELLS)
L9 15712 S ELECTROXOID? OR ELECTROXID? OR ELECTRO(2A) (OXIDI? OR OX
L10 197297 S (VAPOR? OR VAPOUR?) (3A) DEPOSIT?
L11 136528 S (CVD OR (CHEMICAL? OR CHEM) (2A) (VAPOR? OR VAPOUR?) (2A) D
L12 6 S L5 AND L6
L13 4 S L5 AND (L7-L11)
L14 7 S L12 OR L13
L15 41 S L5 NOT L14
L16 5 S 1840-2002/PY,PRY,AY AND L14
L17 23 S 1840-2002/PY,PRY,AY AND L15

=> FILE HCA

FILE 'HCA' ENTERED AT 19:50:57 ON 28 AUG 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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=> D L16 1-5 BIB ABS HITSTR HITIND

L16 ANSWER 1 OF 5 HCA COPYRIGHT 2008 ACS on STN

AN 140:256300 HCA Full-text

TI Vapor deposited catalysts and their
use in fuel cells

IN Figueroa, Juan C.; Lundgren, Cynthia A.

PA E.I. Du Pont De Nemours and Company, USA

SO PCT Int. Appl., 24 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004022209	A2	20040318	WO 2003-US20893	200306 30
				<--	
	WO 2004022209	A3	20040603		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2488724	A1	20040318	CA 2003-2488724	200306 30
				<--	
	AU 2003298520	A1	20040329	AU 2003-298520	200306 30
				<--	
	EP 1516380	A2	20050323	EP 2003-794432	200306 30
				<--	
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				

CN 1666365	A	20050907	CN 2003-815796	
				200306
				30
			<--	
JP 2005532670	T	20051027	JP 2004-534236	
				200306
				30
			<--	
US 20050255370	A1	20051117	US 2004-518330	
				200412
				15
			<--	
PRAI US 2002-393351P	P	20020701	<--	
WO 2003-US20893	W	20030630		
AB	The invention provides a catalyst useful in a proton exchange membrane contg. fuel cell for the electrooxidn. of fuels prep'd. by the chem. activation of vapor deposited substantially semicryst. PtXaAlb onto a substrate, wherein X is selected from the group consisting of Ru, Rh, Mo, W, V, Hf, Zr, Nb and Co, and a is at least 0.001, and b is at least 0.85 (1+a), with the proviso that when a = 1 and b = 8, X is only selected from the group consisting of W, V, Hf, Zr, Nb, and Co. These catalysts have an onset voltage for the electrooxidn. of methanol of less than about 240 mV vs. a SCE. They are useful in making diffusion backing electrodes and catalyst coated membranes for use in fuel cells.			
IT	199009-17-1 271598-57-3 499778-45-9 669054-73-3 669054-74-4 669054-75-5 669054-76-6 669054-77-7 669054-78-8 669054-79-9 669054-80-2 669054-81-3 669054-82-4 669054-83-5 669054-84-6 669054-85-7 669054-87-9 669054-88-0 669054-89-1 669054-90-4 669054-91-5 669054-92-6 (vapor deposited catalysts and their use in fuel cells)			
RN	199009-17-1 HCA			
CN	Aluminum alloy, nonbase, Al,Pt,Rh (9CI) (CA INDEX NAME)			

Component	Component
	Registry Number
Al	7429-90-5
Pt	7440-06-4
Rh	7440-16-6

RN	271598-57-3	HCA
CN	Aluminum alloy, nonbase, Al,Nb,Pt (9CI) (CA INDEX NAME)	

Component Component
 Registry Number

=====+=====

Al	7429-90-5
Nb	7440-03-1
Pt	7440-06-4

RN 499778-45-9 HCA

CN Aluminum alloy, nonbase, Al,Hf,Pt (9CI) (CA INDEX NAME)

Component Component
 Registry Number

=====+=====

Al	7429-90-5
Hf	7440-58-6
Pt	7440-06-4

RN 669054-73-3 HCA

CN Aluminum alloy, nonbase, Al,Pt,Ru (CA INDEX NAME)

Component Component
 Registry Number

=====+=====

Al	7429-90-5
Pt	7440-06-4
Ru	7440-18-8

RN 669054-74-4 HCA

CN Aluminum alloy, nonbase, Al,Mo,Pt (9CI) (CA INDEX NAME)

Component Component
 Registry Number

=====+=====

Al	7429-90-5
Mo	7439-98-7
Pt	7440-06-4

RN 669054-75-5 HCA

CN Aluminum alloy, nonbase, Al,Pt,W (9CI) (CA INDEX NAME)

Component Component
 Registry Number

=====+=====

Al	7429-90-5
Pt	7440-06-4
W	7440-33-7

RN 669054-76-6 HCA
CN Aluminum alloy, nonbase, Al,Pt,V (9CI) (CA INDEX NAME)

Component Component
Registry Number
=====+=====

Al	7429-90-5
Pt	7440-06-4
V	7440-62-2

RN 669054-77-7 HCA
CN Aluminum alloy, nonbase, Al,Pt,Zr (9CI) (CA INDEX NAME)

Component Component
Registry Number
=====+=====

Al	7429-90-5
Pt	7440-06-4
Zr	7440-67-7

RN 669054-78-8 HCA
CN Aluminum alloy, nonbase, Al,Co,Pt (9CI) (CA INDEX NAME)

Component Component
Registry Number
=====+=====

Al	7429-90-5
Co	7440-48-4
Pt	7440-06-4

RN 669054-79-9 HCA
CN Aluminum alloy, base, Al 61,Ru 33,Pt 5.8 (9CI) (CA INDEX NAME)

Component Component Component
Percent Registry Number
=====+=====+=====

Al	61	7429-90-5
Ru	33	7440-18-8
Pt	5.8	7440-06-4

RN 669054-80-2 HCA
CN Platinum alloy, base, Pt 62,Al 30,W 8 (9CI) (CA INDEX NAME)

Component Component Component
Percent Registry Number
=====+=====+=====

Pt	62	7440-06-4
Al	30	7429-90-5
W	8	7440-33-7

RN 669054-81-3 HCA
 CN Platinum alloy, base, Pt 70, Al 29, V 0.8 (9CI) (CA INDEX NAME)

Component	Component	Component
Percent	Registry	Number
Pt	70	7440-06-4
Al	29	7429-90-5
V	0.8	7440-62-2

RN 669054-82-4 HCA
 CN Platinum alloy, base, Pt 79, Al 18, Hf 3.4 (9CI) (CA INDEX NAME)

Component	Component	Component
Percent	Registry	Number
Pt	79	7440-06-4
Al	18	7429-90-5
Hf	3.4	7440-58-6

RN 669054-83-5 HCA
 CN Platinum alloy, base, Pt 75, Al 24, Hf 1.4 (9CI) (CA INDEX NAME)

Component	Component	Component
Percent	Registry	Number
Pt	75	7440-06-4
Al	24	7429-90-5
Hf	1.4	7440-58-6

RN 669054-84-6 HCA
 CN Platinum alloy, base, Pt 88, Al 11, Rh 0.9 (9CI) (CA INDEX NAME)

Component	Component	Component
Percent	Registry	Number
Pt	88	7440-06-4
Al	11	7429-90-5
Rh	0.9	7440-16-6

RN 669054-85-7 HCA
 CN Aluminum alloy, base, Al 45, Rh 36, Pt 18 (9CI) (CA INDEX NAME)

Component	Component	Component
Percent	Registry Number	
Al	45	7429-90-5
Rh	36	7440-16-6
Pt	18	7440-06-4

RN 669054-87-9 HCA
 CN Platinum alloy, base, Pt 72, Al 26, Zr 2 (9CI) (CA INDEX NAME)

Component	Component	Component
Percent	Registry Number	
Pt	72	7440-06-4
Al	26	7429-90-5
Zr	2	7440-67-7

RN 669054-88-0 HCA
 CN Aluminum alloy, base, Al 63, Zr 32, Pt 4.3 (9CI) (CA INDEX NAME)

Component	Component	Component
Percent	Registry Number	
Al	63	7429-90-5
Zr	32	7440-67-7
Pt	4.3	7440-06-4

RN 669054-89-1 HCA
 CN Platinum alloy, base, Pt 72, Al 28, Nb 0.1 (9CI) (CA INDEX NAME)

Component	Component	Component
Percent	Registry Number	
Pt	72	7440-06-4
Al	28	7429-90-5
Nb	0.1	7440-03-1

RN 669054-90-4 HCA
 CN Aluminum alloy, base, Al 66, Nb 31, Pt 3.7 (9CI) (CA INDEX NAME)

Component	Component	Component
Percent	Registry Number	
Al	66	7429-90-5
Nb	31	7440-03-1
Pt	3.7	7440-06-4

RN 669054-91-5 HCA
CN Platinum alloy, base, Pt 85, Al 14, Co 0.9 (9CI) (CA INDEX NAME)

Component	Component	Component
	Percent	Registry Number
Pt	85	7440-06-4
Al	14	7429-90-5
Co	0.9	7440-48-4

RN 669054-92-6 HCA
CN Aluminum alloy, base, Al 52, Co 34, Pt 14 (9CI) (CA INDEX NAME)

Component	Component	Component
	Percent	Registry Number
Al	52	7429-90-5
Co	34	7440-48-4
Pt	14	7440-06-4

IC ICM B01J
CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)
Section cross-reference(s): 56, 67, 72
ST fuel cell vapor deposited
catalyst
IT Fuel cells
 (direct methanol; vapor deposited
 catalysts and their use in fuel cells
)
IT Catalysts
 (electrocatalysts; vapor deposited
 catalysts and their use in fuel cells
)
IT Oxidation catalysts
 (electrochem.; vapor deposited
 catalysts and their use in fuel cells
)
IT Fluoropolymers, uses
 (gas diffusion backing; vapor deposited
 catalysts and their use in fuel cells
)
IT Sulfonic acids, uses
 (perfluorosulfonic acid polymers, substrate; vapor
 deposited catalysts and their use in
 fuel cells)
IT Magnetron sputtering
 (radio-frequency; vapor deposited

catalysts and their use in fuel cells
)
IT Fuel cells
 (solid electrolyte, proton exchange membrane;
 vapor deposited catalysts and their
 use in fuel cells)
IT Ion exchange membranes
 (substrate; vapor deposited catalysts
 and their use in fuel cells)
IT Fluoropolymers, uses
 (sulfo-contg., perfluoro, substrate; vapor
 deposited catalysts and their use in
 fuel cells)
IT Oxidation, electrochemical
 Vapor deposition process
 (vapor deposited catalysts and
 their use in fuel cells)
IT 9002-84-0, Ptfe
 (gas diffusion backing; vapor deposited
 catalysts and their use in fuel cells
)
IT 7440-44-0, Carbon, uses
 (paper, gas diffusion backing; vapor deposited
 catalysts and their use in fuel cells
)
IT 199009-17-1 271598-57-3 499778-45-9
 669054-73-3 669054-74-4 669054-75-5
 669054-76-6 669054-77-7 669054-78-8
 669054-79-9 669054-80-2 669054-81-3
 669054-82-4 669054-83-5 669054-84-6
 669054-85-7 669054-87-9 669054-88-0
 669054-89-1 669054-90-4 669054-91-5
 669054-92-6
 (vapor deposited catalysts and
 their use in fuel cells)
IT 1310-73-2, Sodium hydroxide, processes
 (vapor deposited catalysts and
 their use in fuel cells)
IT 67-56-1, Methanol, uses
 (vapor deposited catalysts and
 their use in fuel cells)
L16 ANSWER 2 OF 5 HCA COPYRIGHT 2008 ACS on STN
AN 139:55420 HCA Full-text
TI Catalyst for fuel cell
IN Date, Tomoko; Kuwahara, Mitsuo
PA Honda Motor Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
	-----	-----	-----	-----	-----
PI	JP 2003173787	A	20030620	JP 2001-371728	200112 05
				<--	
	JP 3831238	B2	20061011		
	JP 2006222092	A	20060824	JP 2006-106579	200604 07
				<--	

PRAI JP 2001-371728 A3 20011205 <--

AB The catalyst, for electrodes in fuel cells having ion exchanger electrolyte membranes, is a Pt catalyst contg. ≥ 1 Group VIII element and Al. The catalyst may also contain Ti, Zr, Hf, Ge, Si, and/or Ga.

IT 545606-12-0 545606-22-2 545606-32-4
545606-45-9

(aluminum and transition metal contg. platinum alloy catalysts for polymer electrolyte fuel cell electrodes)

RN 545606-12-0 HCA

CN Platinum alloy, base, Pt 94, Al 3.3, Co 2.3 (9CI) (CA INDEX NAME)

Component	Component	Component
	Percent	Registry Number

Pt	94	7440-06-4
Al	3.3	7429-90-5
Co	2.3	7440-48-4

RN 545606-22-2 HCA

CN Platinum alloy, base, Pt 91, Co 5.9, Al 2.7 (9CI) (CA INDEX NAME)

Component	Component	Component
	Percent	Registry Number

Pt	91	7440-06-4
Co	5.9	7440-48-4
Al	2.7	7429-90-5

RN 545606-32-4 HCA

CN Platinum alloy, base, Pt 69,Co 30,Al 1.5 (9CI) (CA INDEX NAME)

Component	Component	Component
	Percent	Registry Number
Pt	69	7440-06-4
Co	30	7440-48-4
Al	1.5	7429-90-5

RN 545606-45-9 HCA

CN Platinum alloy, base, Pt 81,Co 17,Al 2.6 (9CI) (CA INDEX NAME)

Component	Component	Component
	Percent	Registry Number
Pt	81	7440-06-4
Co	17	7440-48-4
Al	2.6	7429-90-5

IC ICM H01M004-90

ICS B01J023-89; B01J037-02; C22C005-04; H01M008-10

CC 52-2 (Electrochemical, Radiational, and Thermal Energy Technology)

ST fuel cell electrode catalyst platinum

aluminum transition metal

IT Fuel cell electrodes

(hafnium microalloyed aluminum and transition metal contg.

platinum alloy catalysts for polymer electrolyte

fuel cell electrodes)

IT 545606-12-0 545606-16-4 545606-19-7 545606-22-2

545606-26-6 545606-29-9 545606-32-4 545606-36-8

545606-39-1 545606-42-6 545606-45-9 545606-48-2

545606-51-7 545606-54-0 545606-57-3

(aluminum and transition metal contg. platinum alloy

catalysts for polymer electrolyte fuel

cell electrodes)

IT 7440-58-6, Hafnium, uses

(hafnium microalloyed aluminum and transition metal contg.

platinum alloy catalysts for polymer electrolyte

fuel cell electrodes)

IT 7440-32-6, Titanium, uses

(titanium microalloyed aluminum and transition metal contg.

platinum alloy catalysts for polymer electrolyte

fuel cell electrodes)

IT 7440-67-7, Zirconium, uses

(zirconium microalloyed aluminum and transition metal contg.

platinum alloy catalysts for polymer electrolyte

fuel cell electrodes)

L16 ANSWER 3 OF 5 HCA COPYRIGHT 2008 ACS on STN
AN 123:236572 HCA Full-text
OREF 123:42087a,42090a
TI Aluminum-based catalysts for nitrogen oxide removal and
their manufacture
IN Masumoto, Takeshi; Inoe, Akihisa; Uzawa, Masami
PA Chichibu Onoda KK, Japan; Wai Kei Kei KK; Honda Motor Co., Ltd.
SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07178342	A	19950718	JP 1993-327602	199312 24

<--

PRAI JP 1993-327602 19931224 <--

AB The catalysts are obtained by melting melt-quench solidified Al
alloys contg. elements having catalyst activity to remove Al from
surface and then washing the alloys. The catalysts obtained from the
simple and low-cost process have high activity and are suitable not
only for exhaust gas treatment, but also for decompn. of chems.,
petroleum refining, polymn., manuf. of inorg. chems.,
pharmaceuticals, food, etc.

IT 168552-92-9

(aluminum-based catalysts for nitrogen oxide removal
from exhaust gases)

RN 168552-92-9 HCA

CN Aluminum alloy, base, Al 72,Co 22,Pt 6 (9CI) (CA INDEX NAME)

Component	Component	Component
Percent	Registry Number	
Al	72	7429-90-5
Co	22	7440-48-4
Pt	6	7440-06-4

IC ICM B01J025-00
ICS B01D053-86; B01D053-94; B01J023-63; B01J023-64; B01J023-648;
B01J023-89

CC 59-3 (Air Pollution and Industrial Hygiene)
Section cross-reference(s): 56, 67

ST nitrogen oxide removal catalyst; aluminum alloy

IT catalyst manuf; exhaust gas nitrogen oxide removal
IT Catalysts and Catalysis
 (aluminum-based, for nitrogen oxide removal from exhaust gases)
IT Exhaust gases
 (nitrogen oxide removal from, aluminum-based catalysts
 for)
IT Aluminum alloy, base
 (aluminum-based catalysts for nitrogen oxide removal
 from exhaust gases)
IT 158983-69-8 158983-77-8 168552-84-9 168552-85-0 168552-86-1
 168552-87-2 168552-88-3 168552-89-4 168552-90-7 168552-91-8
 168552-92-9
 (aluminum-based catalysts for nitrogen oxide removal
 from exhaust gases)
IT 11104-93-1, Nitrogen oxide, processes
 (aluminum-based catalysts for nitrogen oxide removal
 from exhaust gases)

L16 ANSWER 4 OF 5 HCA COPYRIGHT 2008 ACS on STN
AN 90:159067 HCA Full-text
OREF 90:25165a, 25168a
TI Thermodesorption and electrochemical study of the state of hydrogen
in catalysts based on platinum group metals
AU Fasman, A. B.; Padyukova, G. L.; Zavorin, V. A.; Kutyukov, G. G.;
Bazhakov, D. K.
CS USSR
SO Tr. In-ta Organ. Kataliza i Elektrokhimii. AN KazSSR (1973
(18), 92-100
From: Ref. Zh., Khim. 1979, Abstr. No. 1B1256
DT Journal
LA Russian
AB Title only translated.
IT 69930-13-8 69930-14-9
 (catalysts, thermodesorption and state of hydrogen in)
RN 69930-13-8 HCA
CN Platinum alloy, base, Pt 51-66, Al 21-27, Rh 7.3-27 (9CI) (CA INDEX
NAME)

Component	Component	Component
	Percent	Registry Number
Pt	51	7440-06-4
Al	21	7429-90-5
Rh	7.3	7440-16-6

RN 69930-14-9 HCA
CN Platinum alloy, base, Pt 52-66, Al 21-27, Ru 7.2-27 (9CI) (CA INDEX

NAME)

Component	Component	Component
	Percent	Registry Number
Pt	52	66
Al	21	27
Ru	7.2	27

CC 72-12 (Electrochemistry)

Section cross-reference(s): 66, 67

ST thermodesorption hydrogen platinum metal catalyst;
desorption hydrogen platinum metal catalyst

IT Platinum-group metals
(catalysts, thermodesorption and state of hydrogen in)

IT Desorption
(thermal, of hydrogen, in catalysts based on
platinum-group metals)

IT 7440-05-3, uses and miscellaneous 7440-06-4, uses and
miscellaneous 7440-16-6, uses and miscellaneous 69930-12-7
69930-13-8 69930-14-9 69930-15-0
(catalysts, thermodesorption and state of hydrogen in)

IT 1333-74-0, properties
(thermodesorption and state of, in catalysts based on
platinum-group metals)

L16 ANSWER 5 OF 5 HCA COPYRIGHT 2008 ACS on STN

AN 80:52654 HCA Full-text

OREF 80:8535a, 8538a

TI Effect of electrolyte composition on hydrogen adsorption on Raney
platinum, rhodium, and platinum-rhodium catalysts

AU Grishina, T. M.; Logacheva, L. I.; Fadeeva, V. I.; Strat'ev, A. I.;
Vovchenko, G. D.

CS Mosk. Gos. Univ., Moscow, USSR

SO Vestnik Moskovskogo Universiteta, Seriya 2: Khimiya (1973
, 14(5), 586-90

CODEN: VMUKA5; ISSN: 0579-9384

DT Journal

LA Russian

AB The prepn. of Pt, Rh, and Pt-Rh catalysts is described and their x-ray and chem. anal. given. All preps. contained 2.51-10.20 wt. % Al. Sp. H adsorption ability in coulombs/g and sp. surface in m²/g were detd. in 1 N H₂SO₄, HCl, and KOH. The strength of H bonding with the surface decreases in the series KOH > H₂SO₄ > HCl.

IT 51428-22-9

(Raney catalysts, electrolyte compn. effect on hydrogen
adsorption by)

RN 51428-22-9 HCA
CN Platinum alloy, base, Pt 0-98, Rh 0-98, Al 2.5-10 (9CI) (CA INDEX NAME)

Component	Component	Component
	Percent	Registry Number
Pt	0 - 98	7440-06-4
Rh	0 - 98	7440-16-6
Al	2.5 - 10	7429-90-5

CC 67-1 (Catalysis and Reaction Kinetics)
Section cross-reference(s): 66
ST Raney platinum rhodium catalyst electrolyte; hydrogen adsorption Raney catalyst
IT Catalysts and Catalysis
(Raney platinum-rhodium, electrolyte soln. effect on hydrogen adsorption by)
IT Adsorption
(of hydrogen, Raney platinum-rhodium catalysts, electrolyte soln. effects on)
IT 51402-53-0 51428-22-9
(Raney catalysts, electrolyte compn. effect on hydrogen adsorption by)
IT 1333-74-0, properties
(adsorption of, by Raney platinum-rhodium catalysts, electrolyte effects on)
IT 7440-06-4, uses and miscellaneous 7440-16-6, uses and miscellaneous
(catalysts, Raney, hydrogen adsorption by, electrolyte effects on)
IT 1310-58-3, uses and miscellaneous 7647-01-0, uses and miscellaneous
7664-93-9, uses and miscellaneous
(hydrogen adsorption by Raney platinum-rhodium catalysts from solns. contg.)

=> D L17 1-23 TI

L17 ANSWER 1 OF 23 HCA COPYRIGHT 2008 ACS on STN
TI Modified platinum-aluminum-hafnium refractory coating for turbine blades
L17 ANSWER 2 OF 23 HCA COPYRIGHT 2008 ACS on STN
TI Covalent bonding and band-gap formation in ternary transition-metal di-aluminides: Al₄MnCo and related compounds

- L17 ANSWER 3 OF 23 HCA COPYRIGHT 2008 ACS on STN
TI The creep behaviour of platinum-based γ/γ' analogues of nickel-based superalloys at 1300 °C
- L17 ANSWER 4 OF 23 HCA COPYRIGHT 2008 ACS on STN
TI Platinum alloys based on Pt-Pt3Al for ultra-high temperature use
- L17 ANSWER 5 OF 23 HCA COPYRIGHT 2008 ACS on STN
TI The precipitate morphology and lattice mismatch of ternary (Pt)/Pt3Al alloys
- L17 ANSWER 6 OF 23 HCA COPYRIGHT 2008 ACS on STN
TI The hot corrosion resistance of platinum-rhodium modified diffusion coating on directionally solidified MAR M002 superalloy at 900°
- L17 ANSWER 7 OF 23 HCA COPYRIGHT 2008 ACS on STN
TI An investigation of the Pt-Al-Ru diagram to facilitate alloy development
- L17 ANSWER 8 OF 23 HCA COPYRIGHT 2008 ACS on STN
TI An assessment of ternary precipitation-strengthened Pt alloys for ultrahigh temperature applications
- L17 ANSWER 9 OF 23 HCA COPYRIGHT 2008 ACS on STN
TI High-temperature compression strengths of precipitation-strengthened ternary Pt-Al-X alloys
- L17 ANSWER 10 OF 23 HCA COPYRIGHT 2008 ACS on STN
TI Wire for electrochemical corrosion prevention of water pipe
- L17 ANSWER 11 OF 23 HCA COPYRIGHT 2008 ACS on STN
TI Characterization of Pt-rich Pt-Al-Ru alloys
- L17 ANSWER 12 OF 23 HCA COPYRIGHT 2008 ACS on STN
TI High temperature air oxidation performance of modified aluminide coatings on a nickel-based superalloy
- L17 ANSWER 13 OF 23 HCA COPYRIGHT 2008 ACS on STN
TI Sputtering target material for thin film transistor
- L17 ANSWER 14 OF 23 HCA COPYRIGHT 2008 ACS on STN
TI Amorphous alloys having high strength and corrosion resistance for living body
- L17 ANSWER 15 OF 23 HCA COPYRIGHT 2008 ACS on STN

- TI Aluminum-doped sputtering target for magnetic recording medium with high coercive force
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- TI Ternary compounds with the Fe_2P -type structure